Air - Mini-Vol Field Data Sheet

1. Sample ID:	***10. Collector's Phone No:***
2. Country:	***11. Collector's Email:***
3. Location:	***12. Percent of personnel exposed (select one):*** 0 / < 10% / 10 < 25% / 25 < 50% / 50 < 75% / > 75%
4. Site:	
5. Operation:	***13. Exposure Duration (select one):*** < 1 week / < 2 weeks / < 1 year / > 1 year
6. Sample Date (mm/dd/yy):	
7. Sample Time:	***14. Exposure Notes:***
8. Collecting Unit:	
9. Collector's Name:	

15. PM Type: (Select One) PM10 / TSP / PM2.5	***18. Minivol ID:***	***21. Blank?:*** (Select One) Yes / No
16. Filter No:	***19. Battery ID:***	***22. Invalid Sample?:*** ***(see footnote)***
17. Filter Assembly ID:	***20. Flow Calibrator ID:*** (Essential to fill in)	

Pre / Start Sampling Period	***23. Notes (Field notes, industries, weather conditions, etc):***

24. Ambient Pressure (Pamb): Inches of Hg _____ x 25.4 = _____ millimeters of Hg

25. Ambient Temperature (Tamb): Degrees Celsius _____ + 273 = _____ degrees Kelvin

26. Calibrator Reading: = Pamb / Tamb ***x*** Calibrator Factor	_____ ***x*** _____ = _____ ***(in H2O)***	***27. Elapsed Time Reading (hrs):***

28. Geolocation:

Note: Classified locations should not be entered. They should be sent to oehs@usachppm.army.smil.mil along with Sample ID

28a. Latitude:

28b. Longitude:

25c. Datum:

28d. MGRS:

18S	*UU*	*83626*	*01432* *Example*

29. Sampling Site Graphic:

30. Is industry around sampling location?: (Select One) Yes / No / Not Known	***31. If industry is present is it active?:*** (Select One) Yes / No / Not Known

Post / End Sampling Period	***32. Notes (Field notes, industries, weather conditions, etc):***

33. Date:	***35. Ambient Pressure (inHg):***	***37. Calibrator Reading (in H2O):***
34. Time:	***36. Ambient Temperature (oC):***	***38. Elapsed Time Reading (hrs):***

Footnote: ***M- Missing Field Data*** | ***B - Battery Failure*** | ***F - Flow differential*** | ***T - Timer Malfun.*** | ***S - Sampler Malfun.*** | ***D - Damaged Media***

AIR – PARTICULATE MATTER MINI-VOL™ FIELD DATA SHEET INSTRUCTIONS

1. **Sample ID** - Sample ID number CCC_LLLLLL_MMMMMM_YYDDD (Sample *ID should also be recorded on the sample label.*)
   Where: CCC – Country 3 letter abbreviation code
   LLLLLL - Camp abbreviation (i.e. first six letters of camp name)
   MMMMMM – Particulate sample type (PM10MV for PM_{10}, PM25MV for $PM_{2.5}$, TSPMV for TSP sampling)
   YYDDD - jday code, last two digits of the year & three digit julian day of the year [e.g 05015 for 15-Jan-2005].
2. **Country** – Country in which location or camp is located.
3. **Location** – Camp or location of sample.
4. **Site** – Specific site where sample was collected (i.e. PX, building 51, etc.), if applicable.
5. **Operation** – Name of operation ongoing in the area of the sample [e.g. Operation Iraqi Freedom (OIF), etc] if applicable.
6. **Sample Date** – Date sample was collected (e.g. 01/15/05). (*Sample Date should also be recorded on the sample label.*)
7. **Sample Time** – Time sample was taken (e.g. 16:00). (*Sample Time should also be recorded on the sample label.)*
8. **Collecting Unit** – Unit collecting the sample (e.g. AML, 71st MEDDET, NEMPU2 etc).
9. **Collector's Name –** The name of the person collecting the sample.
10. **Collector's Phone No**. **–** The phone number of the person collecting the sample.
11. **Collector's Email –** The email address of the person collecting the sample (e.g. john.doe@us.army.mil).
12. **Percent of Personnel Exposed** – What percentage of servicemembers at the site could be exposed to the ambient air?
13. **Exposure Duration** – How long are servicemembers expected to stay at the location where the sampling is being conducted?
14. **Exposure Notes** – Any notes or comments related to servicemember's exposure to the sampled ambient air.
15. **PM Type** – PM10 - Particulate matter less than 10 microns, PM25 - Particulate matter less than 2.5 microns, TSP - Total Suspended Particulate
16. **Filter No** - The filter ID number located on the filter cassette. (e.g. 47-05-001)
17. **Filter Assembly ID** - The ID associated with the filter holder assembly. This ID is used to relate the filter number to the sampler since the filter itself does not have the filter number imprinted on it. The filter number is only on the filter cassette.
18. **Mini-Vol™ ID** - The unique unit ID off the Mini-Vol™ (e.g. 2407, 3318, etc)
19. **Battery ID** - The battery number (BATT #) off the top of the battery used (e.g. 97-421).
20. **Flow Calibrator ID** – ID of Mini-Flow calibrator (e.g. MNF 0023), must be completed for the sample to be valid.
21. **Blank** - Is the sample a QA/QC blank, yes or no?
22. **Invalid Sample** - Is the sample invalid, yes or no. If no state reason from the footnote.

Pre/Start Sampling

23. **Notes** – Notes associated with industrial activities around the area, weather conditions, sand storms, or any other notable event that could provided additional information on the sample.
24. **Ambient Pressure** - Ambient Pressure in inches Hg from a barometer. This pressure will be converted to millimeters of Hg to perform the calculation required to determine the "Calibrator Reading" in Item 26.
25. **Ambient Temperature** - Ambient Temperature in degrees Celsius from a thermometer. This pressure will be converted to degrees Kelvin to perform the calculation required to determine the "Calibrator Reading" in Item 26.
26. **Calibrator Reading** - Divide the ambient pressure (item 24) by the ambient temperature (item 25), then multiply by the MiniFlow factor (found on the MiniFlow case). The MiniVol™ is then adjusted to this calibrator reading at the start of the sampling episode.
27. **Elapsed Time reading** –Elapsed Time Reading in hours from sampler at the start of the sampling episode
28. **Geolocation** (Classified locations should not be entered. They should be sent to oehs@usachppm.army.smil.mil with Sample ID)
    28a. **Latitude** – Sample latitude location in decimal degrees [from GPS]
    28b. **Longitude** – Sample longitude location in decimal degrees [from GPS]
    28c. **Datum** - Datum from map or GPS used (e.g. WGS84, etc)
    28d. **MGRS** – Location in Military Grid Reference System (MGRS) from GPS, ten digit grid with grid square identifier. An MGRS is made up of 5 parts: 1) A zone, 2) latitude band, 3) MGRS square, 4) an easting, and 5) a northing (e.g. 34 T EN 12345 67890)
29. **Sampling Site Graphic** – Any graphical or pictorial description of the sampling site. May include digital picture(s) of the sampling. Digital picture(s) should be sent to oehs@apg.amedd.army.mil with Sample ID.
30. **Is Industry around sampling location?** Yes, No, Not Know (Select One) if yes, please explain in the Notes field (Item 23 or 33).
31. **If Industry is present is it active?** Yes, No, Not Know (Select One).

Post/End Sampling

32. **Notes** – Notes associated with industrial activities around the area, weather conditions, sand storms, or any other notable event that could provided additional information on the sample.
33. **Date** – Date which the sampling episode was ended (e.g. 01/16/05).
34. **Time** – Time which the sampling episode was ended (e.g. 16:00).
35. **Ambient Pressure** - Ambient pressure in degrees inches of mercury (Hg) from barometer at the end of the sampling episode.
36. **Ambient Temperature** - Ambient temp in degrees Celsius from thermometer at the end of the sampling episode.
37. **Calibrator Reading (in H2O)** – MiniFlow calibration reading off of digital manometer at the end of the sampling episode. Obtain by attached the MiniFlow to the MiniVol™ and reading the inches of water from the digital manometer.
38. **Elapsed Time reading** –Elapsed Time Reading in hours from sampler at the end of the sampling episode.